

# JCTVC-G438

## On complexity reduction of bi-prediction for identical motion

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# Overall Summary

- Bi-prediction for identical motion
  - Completely same as JCTVC-G415 by ETRI's proposal
  - In case that bi-prediction has identical motion ( $\text{refPOC0} = \text{refPOC1}$  &&  $\text{mv0} = \text{mv1}$ ), the predicted sample of bi-pred and uni-pred are same in WD4.
  - In such case, a method of changing bi-pred to uni-pred as a implementation technique to reduce complexity is proposed in JCTVC-F325.
  - Through the discussion at Torino meeting, the decision to adopt it in HM software is delegated to software coordinators and its AHG.
  - This contribution provides a source code and test results.
  - The modifications are **just 30 lines** (see this contribution).
- Results:
  - The bitstream of this method is identical to the anchor
  - The reduction of decoding time;
    - RA-HE: **1%**      RA-LC: **1%**
    - LB-HE: **5%**      LB-LC: **5%**

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